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(54) **METHOD FOR OPTIMIZING THE FREQUENCY OF NETWORK TOPOLOGY PARAMETER UPDATES**

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(58) **Field of Classification Search** ..... None
See application file for complete search history.

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(57) **ABSTRACT**

Accuracy of network topology information and efficient usage of available bandwidth when broadcasting topology updates are optimized in accordance with the principles of the present invention by collecting and utilizing locally known network usage information to update the network topology information between regular updates. This information is then used in establishing paths for end user communication through the network. It is further used to determine which network topology information is to be included in a subsequent update broadcast by the node. Additionally, it is used to tune adaptively the frequency with which updates are broadcast by the node.

15 Claims, 3 Drawing Sheets